

## Product datasheet for **AP02425PU-N**

### CDC25A pSer76 Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | IHC, WB   |
| Recommended Dilution: | Suitable for use in Western blot (1:500~1:1000) and Immunohistochemistry (1:50~1:100).  |
| Reactivity:           | Human, Mouse  |
| Host:                 | Rabbit  |
| Clonality:            | Polyclonal  |
| Immunogen:            | The antiserum was produced against synthesized phosphopeptide derived from human cdc25A around the phosphorylation site of serine 75 (M-G-SP-S-E).  |
| Specificity:          | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. cdc25A (phospho-Ser75) antibody detects endogenous levels of cdc25A only when phosphorylated at serine 75. |
| Formulation:          | PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction.   |
| Concentration:        | lot specific  |
| Purification:         | Immunoaffinity chromatography.  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store the antibody (in aliquots) at -20°C.<br>Avoid repeated freezing and thawing.  |
| Stability:            | Shelf life: One year from despatch.   |
| Gene Name:            | cell division cycle 25A   |
| Database Link:        | <a href="#">Entrez Gene 993 Human P30304</a>  |



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**Background:**

Cyclin dependent kinases are positively regulated by association with cyclins and negatively regulated by binding to inhibitory subunits. The activity of cyclin dependent kinases is also regulated by the phosphorylation status, which is controlled by the antagonistic action of Wee1 kinase and CDC25 phosphatases. Three CDC25 genes are present in human cells: CDC25A, CDC25B, and CDC25C. These three genes function at different phases of the cell cycle. Whereas CDC25A and CDC25B are expressed throughout the cell cycle, with peak expression in G1 for CDC25A and in both G1 S phase and G2 for CDC25B, CDC25C is predominantly expressed in G2.

**Synonyms:**

CDC-25A

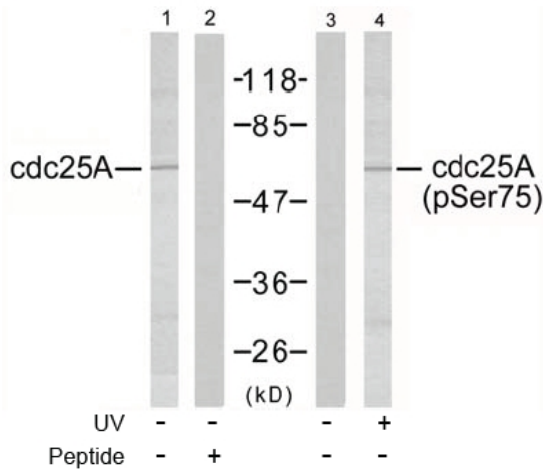
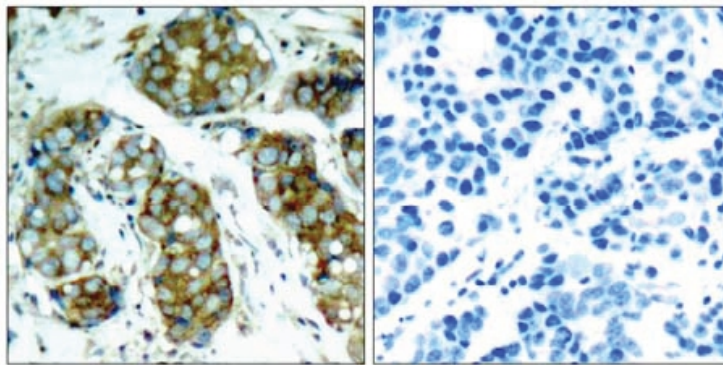
**Product images:**


Figure 2. Western blot analysis of extracts from A2780 cells using cdc25A antibody (Lane 1 and 2) and cdc25A (phospho-Ser75) antibody (Lane 3 and 4).



P-Peptide

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Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using cdc25A (phospho-Ser75) antibody.